

SEQUENCE LISTING

<110> BAYER AG

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<170> PatentIn Ver. 2.1

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<222> (244)..(1566)

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gatagactct agtggatatc tacaagtatt ggttttttga taaaataggc tgaggtgaga  
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288

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336

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384

Arg	Val	Phe	Val	Ser	Ser	Arg	Phe	Leu	Ala	Arg	Asp	Arg	Asn	Leu	Met
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tgg aat ggg aga atc aag aaa ggt ggg aga caa agg tgg aat ttt ggc  
432

Trp	Asn	Gly	Arg	Ile	Lys	Lys	Gly	Gly	Arg	Gln	Arg	Trp	Asn	Phe	Gly
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0944034 6560

Ser Leu Ile Ala Asp Pro Arg Tyr Ser Cys Leu Gly Gly Ser Arg Thr  
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528

Glu Lys Gly Ser Thr Phe Ser Val Gln Ser Ser Leu Val Ala Ser Pro  
80 85 90 95

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576

Ala Gly Glu Met Thr Val Ser Ser Glu Lys Lys Val Tyr Asp Val Val  
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624

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115 120 125

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672

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130 135 140

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720

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145 150 155

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768

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816

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864

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912

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210 215 220

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960

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1056

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1104

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1248

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1296

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340 345 350

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1344

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Glu Lys Gly Val Thr Glu Leu Asp Ser Ala Ser Arg Trp Pro Val Leu  
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1488

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85 90 95

Gly Glu Met Thr Val Ser Ser Glu Lys Lys Val Tyr Asp Val Val Leu  
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Lys Gln Ala Ala Leu Val Lys Arg Gln Leu Arg Ser Thr Asp Asp Leu  
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[illegible]

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 $\langle 222 \rangle \quad (333) \dots (1565)$ 

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240

aaattaagca gaggaaggaa ggaaacagaa aacagaaagt aagacaaaaa accttggaat  
300

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449

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593

Thr Met Thr Ser Glu Gln Met Val Tyr Asp Val Val Leu Lys Gln Ala  
75 80 85

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641

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689

Pro Glu Ile Pro Leu Pro Gly Asn Leu Ser Leu Leu Ser Glu Ala Tyr  
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737

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785

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881

Ser His Ile Thr Pro Gln Ala Leu Asp Arg Trp Glu Asp Arg Leu Glu  
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265 270 275

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Thr Ser Ser  
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Thr Pro Ala Gly Glu Met Ala Thr Met Thr Ser Glu Gln Met Val Tyr
      65           70           75           80
Asp Val Val Leu Lys Gln Ala Ala Leu Val Lys Arg Gln Leu Arg Ser
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Ala Asp Asp Leu Glu Val Lys Pro Glu Ile Pro Leu Pro Gly Asn Leu
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Ser Leu Leu Ser Glu Ala Tyr Asp Arg Cys Ser Glu Val Cys Ala Glu
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Tyr Ala Lys Thr Phe Tyr Xaa Gly Thr Met Xaa Met Thr Pro Glu Arg
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Arg Arg Ala Ile Trp Ala Ile Tyr Val Trp Cys Arg Arg Thr Asp Glu
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Leu Val Asp Gly Pro Asn Ala Ser His Ile Thr Pro Gln Ala Leu Asp
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Arg Trp Glu Asp Arg Leu Glu Asp Val Phe Ser Gly Arg Pro Phe Asp
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Met Leu Asp Ala Ala Leu Ser Asp Thr Val Ser Lys Phe Pro Val Asp
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Ile Gln Pro Phe Arg Asp Met Ile Glu Gly Met Arg Met Asp Leu Arg
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Lys Ser Arg Tyr Arg Asn Phe Asp Glu Leu Tyr Leu Tyr Cys Tyr Tyr
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          260           265           270

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325 330 335

Asp Glu Ala Glu Glu Gly Val Thr Gln Leu Ser Ser Ala Ser Arg Trp  
340 345 350

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Glu Ala Asn Asp Tyr Asn Asn Phe Thr Lys Arg Ala Tyr Val Ser Lys  
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120

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180

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230

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278

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326

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374

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422

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518

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566

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115 120 125

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614

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710

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758

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806

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225 230 235

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998

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1046

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1094

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1142

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305 310 315

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1190

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320 325 330

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1238

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1286

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1334

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370 375 380

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1382

Tyr Lys Leu Val Gly Val Pro Val Val Thr Val Gln Leu Arg Tyr Asn  
385 390 395

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1430

Gly Trp Val Thr Glu Leu Gln Asp Leu Glu Arg Ser Arg Gln Leu Lys  
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cgc gct aca ggt ttg gac aat ctc ctg tat aca cca gat gca gat ttc  
1478

Arg Ala Thr Gly Leu Asp Asn Leu Leu Tyr Thr Pro Asp Ala Asp Phe  
415 420 425 430

tct tgc ttt gcg gac ctt gca ttg gca tct cct gaa gat tat tac att  
1526

Ser Cys Phe Ala Asp Leu Ala Leu Ala Ser Pro Glu Asp Tyr Tyr Ile  
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1574

Glu Gly Gln Gly Ser Leu Leu Gln Cys Val Leu Thr Pro Gly Asp Pro  
450 455 460

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1622

Tyr Met Pro Leu Leu Asn Asp Glu Ile Ile Lys Arg Val Ser Lys Gln  
465 470 475

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1670

Val Leu Ala Leu Phe Pro Ser Ser Gln Gly Leu Glu Val Thr Trp Ser  
480 485 490

tca gtt gtg aaa att ggg caa tcc cta tat cgt gaa gga cct ggt aaa  
1718

Ser Val Val Lys Ile Gly Gln Ser Leu Tyr Arg Glu Gly Pro Gly Lys  
495 500 505 510

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1766

Asp Pro Phe Arg Pro Asp Gln Lys Thr Pro Val Glu Asn Phe Phe Leu  
515 520 525

gct ggc tca tat aca aaa cag gac tac ata gat agc atg gaa ggg gca  
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Ala Gly Ser Tyr Thr Lys Gln Asp Tyr Ile Asp Ser Met Glu Gly Ala

[illegible]

- 14 -

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Thr Leu Ser Gly Arg Gln Ala Ser Ala Tyr Val Cys Asp Ala Gly Glu  
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1910

Lys Leu Val Val Leu Arg Lys Lys Ile Ala Ala Ala Glu Ser Asn Glu  
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1955

Ile Ser Glu Gly Val Ser Val Ser Asp Glu Leu Ser Leu Val  
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2015

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2075

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Arg Ala Asp Leu Asp Ser Met Val Ser Asp Met Ser Thr Asn Ala Pro  
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Lys Gly Leu Phe Pro Pro Glu Pro Glu His Tyr Arg Gly Pro Lys Leu  
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Lys Val Ala Ile Ile Gly Ala Gly Leu Ala Gly Met Ser Thr Ala Val  
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Glu Leu Leu Asp Gln Gly His Glu Val Asp Ile Tyr Glu Ser Arg Pro  
100 105 110

Phe Ile Gly Gly Lys Val Gly Ser Phe Val Asp Arg Arg Gly Asn His  
 115 120 125  
 Ile Glu Met Gly Leu His Val Phe Phe Gly Cys Tyr Asn Asn Leu Phe  
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 Arg Leu Leu Lys Lys Val Gly Ala Glu Lys Asn Leu Leu Val Lys Asp  
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 His Thr His Thr Phe Val Asn Lys Gly Gly Glu Ile Gly Glu Leu Asp  
 165 170 175  
 Phe Arg Phe Pro Val Gly Ala Pro Leu His Gly Ile Asn Ala Phe Leu  
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 Ser Thr Asn Gln Leu Lys Ile Tyr Asp Lys Ala Arg Asn Ala Val Ala  
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 225 230 235 240  
 Met Ser Lys Gly Gly Thr Arg Ala Ser Ile Gln Arg Met Trp Asp Pro  
 245 250 255  
 Val Ala Tyr Ala Leu Gly Phe Ile Asp Cys Asp Asn Ile Ser Ala Arg  
 260 265 270  
 Cys Met Leu Thr Ile Phe Ala Leu Phe Ala Thr Lys Thr Glu Ala Ser  
 275 280 285  
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 290 295 300  
 Ile Lys Lys Tyr Ile Leu Asp Lys Gly Gly Arg Phe His Met Arg Trp  
 305 310 315 320  
 Gly Cys Arg Gln Val Leu Tyr Glu Thr Ser Ser Asp Gly Ser Met Tyr  
 325 330 335  
 Val Ser Gly Leu Ala Met Ser Lys Ala Thr Gln Lys Lys Val Val Lys  
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 Ala Asp Ala Tyr Val Ala Ala Cys Asp Val Pro Gly Ile Lys Arg Leu  
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 370 375 380  
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 Val Thr Glu Leu Gln Asp Leu Glu Arg Ser Arg Gln Leu Lys Arg Ala  
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 420 425 430  
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435	440	445
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Pro Leu Leu Asn Asp Glu Ile Ile Lys Arg Val Ser Lys Gln Val Leu		
465	470	475
Ala Leu Phe Pro Ser Ser Gln Gly Leu Glu Val Thr Trp Ser Ser Val		
	485	490
Val Lys Ile Gly Gln Ser Leu Tyr Arg Glu Gly Pro Gly Lys Asp Pro		
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Phe Arg Pro Asp Gln Lys Thr Pro Val Glu Asn Phe Phe Leu Ala Gly		
	515	520
Ser Tyr Thr Lys Gln Asp Tyr Ile Asp Ser Met Glu Gly Ala Thr Leu		
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Ser Gly Arg Gln Ala Ser Ala Tyr Val Cys Asp Ala Gly Glu Lys Leu		
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05347081 050234



